PATENT COOPERATION TREATY

PCT

Translation INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 4F-167 CAS 4	FOR FURTHER ACTION	See Form PCT/IPEA/416
nternational application No.	International filing date (day/month/year)	Priority date (day/month/year)
PCT/FR2004/000240	03.02.2004	04.02.2003
ternational Patent Classification (IPC) or	national classification and IPC	
A61K 7/48		
pplicant		
ROBERT WAN HOLDING		
This report is the international properties and transmitted to the second	reliminary examination report, established by to the applicant according to Article 36.	this International Preliminary Examining Authority
2. This REPORT consists of a total of		uding this cover sheet.
3. This report is also accompanied b		
a. (sent to the applicant	and to the International Bureau) a total of	sheets, as follows:
sheets of the des	cription, claims and/or drawings which have be	een amended and are the basis for this report and/or e Rule 70.16 and Section 607 of the Administrative
sheets which sup	persede earlier sheets, but which this Authority n the international application as filed, as indic	considers contain an amendment that goes beyond ated in item 4 of Box No. I and the Supplemental
Box.		
b (sent to the Internatio	nal Bureau only) a total of (indicate type and nu	imber of electronic carrier(s))
related thereto, in comp Section 802 of the Adm	outer readable form only, as indicated in the Suinistrative Instructions).	, containing a sequence listing and/or tables applemental Box Relating to Sequence Listing (see
4. This report contains indications re	elating to the following items:	
Box No. I Basis of	the report	
Box No. II Priority	•	
	ablishment of opinion with regard to novelty, in	nventive step and industrial applicability
	unity of invention	a succession and made an approximately
Box No. V Reason	·	novelty, inventive step or industrial applicability;
	documents cited	
Box No. VII Certain	defects in the international application	
Box No. VIII Certain	observations on the international application	
ate of submission of the demand	Date of completion	of this report
03-08-2004	01-03-20	•
Jame and mailing address of the IPEA/	Authorized officer	
acsimile No.	Telephone No	

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/FR2004/000240

Box	No. I	Basis of the report				
1.	 With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item. 					
	This report is based on translations from the original language into the following language which is the language of a translation furnished for the purposes of: international search (Rule 12.3 and 23.1(b))					
		publication of the international application (Rule 12.4)				
2.	With rea	international preliminary examination (Rule 55.2 and/or 55.3)				
<i>2</i> .	receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):					
	\square	international application as originally filed/furnished				
i		description:				
	pag					
	pag	ges* received by this Authority on				
	pag	ges* received by this Authority on				
	∑ the	claims:				
	nos	s. 1-4 as originally filed/furnished				
	nos	s.* as amended (together with any statement) under Article 19				
	nos	s.* received by this Authority on				
	nos	s.* received by this Authority on				
	the	e drawings:				
	she	eetsas originally filed/furnished				
	she	eets* received by this Authority on				
	she	received by this Authority on				
		sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.				
3.	LJ In	ne amendments have resulted in the cancellation of:				
	<u> </u>	the description, pages				
Į	the claims, nos.					
	Ļ	the drawings, sheets/figs				
	Ļ	the sequence listing (specify):				
		any table(s) related to sequence listing (specify):				
4.	The the	nis report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since y have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).				
	the description, pages					
	the claims, nos.					
	the drawings, sheets/figs					
	the sequence listing (specify):					
	any table(s) related to sequence listing (specify):					
	If item 4	applies, some or all of those sheets may be marked "superseded."				

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Box	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
1.	Statement				
Novelty (N)		Claims 2-4	YES		
		Claims 1	NO		
	Inventive step (IS)	Claims	YES		
		Claims 1-4	_		
	Industrial applicability (IA)	Claims 1-4			
	77	Claims 1-4 Claims			
2.	2. Citations and explanations (Rule 70.7)				
	1. In the pro	esent report, reference is made to the			
	following documents:				
	D1: DUNST	AN ET AL.: "The effect of lyophilization			
	on the	e solvent extraction of lipid classes,			
	fatty	acids and sterols from the oyster			
	crasso	ostrea gigas" LIPIDS, vol. 28, no. 10,			
	1993,	pages 937-944, XP0008023254 USA;			
	D2: PATEN	T ABSTRACTS OF JAPAN, vol. 1996, no. 11,			
	29 No	vember 1996 (1996-11-29) & JP 8 175950 A			
	(MIKI	MOTO PHARMACEUT CO LTD), 9 July 1996			
	(1996	-07-09);			
	D3: DATAB	ASE WPI Section Ch, Week 199032 Derwent			
	Publi	cations Ltd., London, GB; Class D21, AN			
	1990-	242898 XP002257518 & JP 02 169509 A			
	(MIKI	MOTO SEIYAKU KK) 29 June 1990			
	(1990	-06-29);			
	D4: FR-A-	2 799 125 (CENTRE NAT RECH SCIENT)			
		il 2001 (2001-04-06).			
	•	·			

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

2. Novelty (PCT Article 33(1) and (2)):

- The subject matter of claim 1 is not considered to be novel (PCT Article 33(1) and (2)), for the following reasons:

Documents D1, D2 and D3 each describe a method for extracting a lipid active principle from a solid material taken from a mother-of-pearl mollusc, which method is characterised in that it comprises steps of grinding the mother-of-pearl, contacting the resulting powder with a lipid solvent, separating the solvent and extracting the lipid active principle by means of solvent evaporation (cf. D1, the whole document; D2 and D3, the abstracts).

It follows that documents D1, D2 and D3 deprive the subject matter of claim 1 of novelty.

3. Inventive step (PCT Article 33(1) and (3))

- The subject matter of dependent claims 2-4 is not considered to be inventive (PCT Article 33(1) and (3)), for the following reasons:
- The problem that the present application is intended to solve is that of providing an inexpensive method for extracting an active principle from mother-of-pearl molluscs.

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- The solution proposed by the present invention is an extraction method characterised in that it comprises steps of grinding the mother-of-pearl into a fine powder, contacting the resulting powder with a lipid solvent, separating the solvent and extracting the lipid active principle by means of solvent evaporation.

Document D3, which is considered to be the closest prior art, describes a method for extracting a lipid active principle from a solid material taken from a mother-of-pearl mollusc, which method is characterised in that it comprises steps of grinding the mother-of-pearl, contacting the ground material with a lipid solvent, separating the solvent and extracting the lipid active principle by means of solvent evaporation.

- The difference between the subject matter of the claims and document D3 is that the mother-of-pearl is ground into a fine powder that has a mean particle size of less that 20 μ m and, preferably, of around 8 μ m.

Document D4 describes a method for extracting active principles from the mother-of-pearl of certain mother-of-pearl molluscs (Pinctada maxima), wherein the particle size of the mother-of-pearl powder used is between 1 and 300 μ m and, preferably, between 15 and 50 μ m. It is

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stipulated in document D3 that the finer the mother-of-pearl powder, the higher the resulting yields of active principles (cf. D4, page 4, lines 1-28).

- It follows that the objective problem in the present application can be considered to be that of enhancing a method for extracting active principles by grinding the material into a fine powder that has a predetermined particle size.

The solution to this problem, as proposed in claims 2-4, appears to be obvious. As a result, the subject matter of claims 2-4 cannot be considered to involve an inventive step (PCT Article 33(1) and (3)).